

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/694,968		
		Filing Date	October 28, 2003		
		First Named Inventor	Brig Barnum Elliott		
		Art Unit	2416		
		Examiner Name	Tran, P. H.		
Sheet	1	of	9	Attorney Docket Number	BBNT-P01-249

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/P.T.	AA13	2001/0007560	07-12-2001	Masuda et al.	
	AA14	2001/0034793	10-25-2001	Madriga et al.	
	AA15	2001/0040895	11-15-2001	Templin	
	AA16	2001/0045914	11-29-2001	Bunker	
	AA17	2002/0029214	03-07-2002	Yanilos et al.	
	AA18	2002/0057660	05-16-2002	Park et al.	
	AA19	2002/0071392	06-13-2002	Grover et al.	
	AA20	2002/0080755	06-27-2002	Tasman et al.	
	AA21	2002/0103893	08-01-2002	Frelechoux et al.	
	AA22	2002/0131409	09-19-2002	Frank et al.	
	AA23	2002/0143755	10-03-2002	Wynblatt et al.	
	AA24	2002/0176390	11-28-2002	Sparr et al.	
	AA25	2003/0058852	03-27-2003	Luhmann et al.	
	AA26	2003/0096577	05-22-2003	Heinonen et al.	
	AA27	2003/0126284	07-03-2003	Houston et al.	
	AA28	2003/0153338	08-14-2003	Herz et al.	
	AA29	2004/0001720	01-01-2004	Krill et al.	
	AA30	2004/0027284	02-12-2004	Leeper et al.	
/P.T.	AA31	2004/0106408	06-03-2004	Beasley et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number-Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
/P.T./	BA	EP-0447725	09-25-1991	Digital Equipment Corp	
/P.T./	BB	WO-0137483	05-25-2001	ITT Mfg Enterprises Inc et al.	

Examiner Signature	/Phuc Tran/ (09/30/2009)	Date Considered	
--------------------	--------------------------	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO. Those application(s) which are marked with an asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitution for form 1449/PTO <h1>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/694,968
				Filing Date	October 28, 2003
				First Named Inventor	Brig Barnum Elliott
				Art Unit	2416
Sheet	2	of	9	Examiner Name	Tran, P. H.
				Attorney Docket Number	BBNT-P01-249

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		
/P/	AA32	2004/0213167	10-28-2004	Garcia-Luna-Aceves et al.	
	AA33	2004/0243702	12-02-2004	Vainlo et al.	
	AA34	2005/0013613	01-20-2005	Stevenson et al.	
	AA35	2005/0030949	02-10-2005	Shirakawa et al.	
	AA36	2005/0117914	06-02-2005	Chuah et al.	
	AA37	2005/0213586-A1	09-29-2005	Cyganski et al.	
	AA38	2007/0106852	05-10-2007	Lam et al.	
	AA39	4,718,002	01-05-1988	Carr	
	AA40	4,827,411	05-02-1989	Arrowood et al.	
	AA41	5,079,767	01-07-1992	Perlman	
	AA42	5,093,824	03-03-1992	Coan et al.	
	AA43	5,117,422	05-26-1992	Hauptschein et al.	
	AA44	5,175,843	12-29-1992	Casavant et al.	
	AA45	5,243,592	09-07-1993	Perlman et al.	
	AA46	5,412,654	05-02-1995	Perkins	
	AA47	5,742,820	04-21-1998	Perlman et al.	
	AA48	5,764,895	06-09-1998	Chung	
	AA49	5,828,835	10-27-1998	Isfeld et al.	
/D T /	AA50	5,850,592	12-15-1998	Ramanathan	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	/Phuc Tran/ (09/30/2009)	Date Considered	
-----------------------	--------------------------	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO: Those application(s) which are marked with an single asterisk (*) need not be cited to the Cite No are not supplied (under 37 CFR 1.98(a)(2)(ii)) because that application was filed after Jan 30, 2003 or is available in the IFW. Applicant's unique citation designation number (optional). See Kinds/Codes of USPTO Patent Documents at www.uspto.gov/pat/mpep/mpep_609_01_04.html Enter Office that issued the cited patent or publication. State, if known, the year of the filing of the application of the applicant. The year of the filing of the application of the applicant precedes the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under the WPO Standard ST 16 is possible. * Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitution for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete If Known</i>	
				Application Number	10/694,968
				Filing Date	October 28, 2003
				First Named Inventor	Brig Barnum Elliott
				Art Unit	2416
				Examiner Name	Tran, P. H.
Sheet	3	of	9	Attorney Docket Number	BBNT-P01-249

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/P.T.		AA51 5,878,095	03-02-1999	Kainulainen et al.	
		AA52 5,881,246	03-09-1999	Crawley et al.	
		AA53 5,884,040	03-16-1999	Chung	
		AA54 5,903,735	05-11-1999	Kidder et al.	
		AA55 5,913,921	06-22-1999	Tosey et al.	
		AA56 5,960,047	09-28-1999	Proctor, Jr. et al.	
		AA57 6,028,857	02-22-2000	Poor	
		AA58 6,032,190	02-29-2000	Bremer et al.	
		AA59 6,069,895	05-30-2000	Ayandeh et al.	
		AA60 6,088,622	07-11-2000	Dollin et al.	
		AA61 6,088,734	07-11-2000	Marin et al.	
		AA62 6,092,096	07-18-2000	Lewis et al.	
		AA63 6,151,308	11-21-2000	Ibanez-Meier et al	
		AA64 6,173,324	01-09-2001	D'Souza	
		AA65 6,216,167	04-10-2001	Momirov	
		AA66 6,252,856	06-26-2001	Zhang	
		AA67 6,262,976	07-17-2001	McNamara	
		AA68 6,275,492	08-14-2001	Zhang	
/P.T.		AA69 6,304,548	10-16-2001	Shaffer et al.	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	/Phuc Tran/ (09/30/2009)	Date Considered	
-----------------------	--------------------------	--------------------	--

* EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609 Draw line through citation if not in conformance and not considered Include copy of this form with next communication to applicant * CITE NO Those application(s) which are marked with an single asterisk (*) need not be cited No are not supplied under 37 CFR 1.98(a)(2)(iii) because that publication was filed after year 2000, 2003 or is available in the IFW Applicant's unique citation designation number (optional) See Kinds Codes for USPTO Patent Documents at [www.uspto.gov](#) or MPEP 801-04 Enter Office that issued patent, e.g., "USPTO" or "EPO" in column 10 of the Statement of Inventive Step Indicate the year of the grant of the Empire right in column 11 precede the serial number of the patent document Kind of document by the appropriate symbols as indicated on the document under WFO Standard ST 16 is possible * Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitution for form 1449/PTO <h1>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/694,968
				Filing Date	October 28, 2003
				First Named Inventor	Brig Barnum Elliott
				Art Unit	2416
Sheet	4	of	9	Examiner Name	Tran, P. H.
				Attorney Docket Number	BBNT-P01-249

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/P T	AA70	6,310,883	10-30-2001	Mann et al.	
	AA71	6,349,091	02-19-2002	Li	
	AA72	6,362,821	03-26-2002	Gibson et al.	
	AA73	6,385,673	05-07-2002	DeMoney	
	AA74	6,385,714	05-07-2002	Li	
	AA75	6,418,299	07-09-2002	Ramanathan	
	AA76	6,470,329	10-22-2002	Livschitz	
	AA77	6,473,421	10-29-2002	Tappan	
	AA78	6,496,510	12-17-2002	Tsakakoshi et al.	
	AA79	6,542,469	04-01-2003	Kelley et al.	
	AA80	6,594,268	07-15-2003	Aukia et al.	
	AA81	6,631,136	10-07-2003	Chowdhury et al.	
	AA82	6,683,885	01-27-2004	Sugai et al.	
	AA83	6,745,224	06-01-2004	D'Souza et al.	
	AA84	6,807,158	10-19-2004	Krishnamurthy et al.	
	AA85	6,954,449	10-11-2005	Cain et al.	
	AA86	6,977,937	12-20-2005	Weinstein et al.	
/P T	AA87	6,980,537	12-27-2005	Liu	
	AA88	6,990,350	01-24-2006	Davis et al	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	/Phuc Tran/ (09/30/2009)	Date Considered	
-----------------------	--------------------------	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO: Those application(s) which are marked with an single asterisk (*) need not be cited to the Cite No are not supplied (under 37 CFR 1.98(b)(2)(iii)) because that application was filed after Jan 30, 2003 or is available in the IFW. Applicant's unique citation designation number (optional). See Kinds/Codes of USPTO Patent Documents at www.uspto.gov/pat/mpep/mpep_303_04.html Enter Office that issued the cited patent or publication. State, if known, the date of the patent or publication. Indicate the year of the RPN of the document of the Empire mark. Indicate the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under the WPO/Standard ST 16 is possible. * Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Complete if Known		
Sheet	6	of	9	Application Number	10/694,968
				Filing Date	October 28, 2003
				First Named Inventor	Brig Barnum Elliott
				Art Unit	2416
				Examiner Name	Tran, P. H.
				Attorney Docket Number	BBNT-P01-249

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
/P.T./	CL	Basu et al., "Movement Control Algorithms for Realization of Fault-Tolerant Ad Hoc Robot Networks," IEEE Network, pp. 36-44, July/August 2004.		
/P.T./	CM	Bevan et al., "Free-Space Optical Data Bus for Spacecraft", Earth Science Technology Conference, June 24-26, 2003, 6 pages		
/P.T./	CN	Choudhury et al., "Using Directional Antennas for Medium Access Control in Ad Hoc Networks", MOBICOM'002, September 23-28, 2002, pages 59-70		
/P.T./	CO	Everett, "GPM Reference Interfaces", May 30, 2001, 9 pages		
/P.T./	CP	Garcia, Lune Aceves et al., "Analysis of Routing Strategies for Packet Radio Networks", Proc. of the IEEE INFOCOM '85, Washington, DC, 292-302 (185)		
/P.T./	CQ	Garg, et al., "Improved Approximation Algorithms for Biconnected Subgraphs via Better Lower Bounding Techniques," Department of Computer Science and Engineering, Indian Institute of Technology, New Delhi, pages 103-111 (1993).		
/P.T./	CR	Hahn et al., "Packet Radio Network Routing Algorithms: A Survey," IEEE Communications Magazine, 22:11, 41-7 (November 1984)		
/P.T./	CS	Hsu et al., "Simpler and Faster Biconnectivity Augmentation," Journal of Algorithms, 45:55-71 (2002).		
	CT	Jacquet et al., "Optimized Link State Routing Protocol for Ad Hoc Networks," Proc. IEEE INMIC, Pakistan, pages 1	➔	no date
/P.T./	CU	Jennings et al., "Topology Control for Efficient Information Dissemination in Ad-hoc Networks," Jet Propulsion Laboratory, pp. 1-7.(2002).		

Examiner Signature	/Phuc Tran/ (09/30/2009)	Date Considered	
--------------------	--------------------------	-----------------	--

¹EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ³Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/694,968
		Filing Date	October 28, 2003
		First Named Inventor	Brig Barnum Elliott
		Art Unit	2416
		Examiner Name	Tran, P. H.
		Attorney Docket Number	BBNT-P01-249
Sheet	7	of	9

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/P.T./	CV	Jubin et al., "The DARPA Packet Radio Network Protocols," Proc. of the IEEE, 75:1, 21-32 (January 1987)	
/P.T./	CW	Kahn, "The Organization of Computer Resources into a Packet Radio Network," IEEE Trans. on Communications, COM-25:1, 169-78 (January 1977)	
/P.T./	CX	Karp, B. et al. GPSR: Greedy Perimeter Stateless Routing for Wireless Networks. ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom 2000).	
/P.T./	CY	Khuller et al., "Biconnectivity Approximations and Graph Carvings," Journal of the ACM, 41(2):214-235 (1994).	
/P.T./	CZ	Lauer, Gregory S., "Packet Radio Routing," Ch. 11, "Routing in Communications Networks," ed. Martha Steenstrup, Prentice Hall, pp. 352-96 (1995)	
	CAT	Lee, S. et al., Neighbor Supporting Ad Hoc Multicast Routing Protocol, 6 pages	
	CB1	Lee, Sung-Ju et al., A Performance Comparison Study of Ad Hoc Wireless Multicast Protocols, University of California, 10 pages	
/P.T./	CC1	Li et al., "Sending Messages to Mobile Users in Disconnected Ad-Hoc Wireless Networks," MOBICOM (2000).	
/P.T./	CD1	Liao et al., "GRID: A Fully Location-Aware Routing Protocol for Mobile Ad Hoc Networks," Telecommunications Systems, 18(1):37-60 (2001).	
/P.T./	CE1	Lin et al., "Adaptive Clustering for Mobile Wireless Networks," IEEE Journal on Selected Areas in communications, 15(7):1-21 (1997).	

Examiner Signature	/Phuc Tran/ (09/30/2009)	Date Considered	
--------------------	--------------------------	-----------------	--

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/694,968
		Filing Date	October 28, 2003
		First Named Inventor	Brig Barnum Elliott
		Art Unit	2416
		Examiner Name	Tran, P. H.
		Attorney Docket Number	BBNT-P01-249
Sheet	8	of	9

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CF1	Magness, Rodger, "A Comparison of CAN and Bluetooth Protocols - A Study for Application of CAN over Bluetooth for Wireless Onboard Data Handling for a Spacecraft Sensor Network", NASA Astrophysics Data System, 24 pages	
/P.T./	CG1	McAuley et al., "Self-Configuring Networks," MOBICOM pp. 315-319 (2000).	
/P.T./	CH1	Mount, "Articulation Points and Biconnected Components," CMSC 451: Lecture 11, Tuesday, Oct. 6 1998. www.cs.umd.edu/~samir/451/bc.ps, pp 1-5	
/P.T./	CI1	Moy, "Link-State Routing," Ch. 5, "Routing in Communications Networks," ed. Martha Steenstrup, Prentice Hall, pp. 136-57 (1995)	
/P.T./	CJ1	Pascall et al., "Commercial Satellite Communication", 1997 pages 78-91	
/P.T./	CK1	Prague, "Power Line Carrier Techniques Applied to Spacecraft Data Handling, Data Systems in Areospace DASIA", June 2-6, 2003, Czech Republic, 16 pages	
/P.T./	CL1	Ramanathan et al., "Topology Control of Multihop Wireless Networks using Transmit Power Adjustment," Proc. IEEE INFOCOM 2000, March 2000, 10 pages	
/P.T./	CM1	SEA (Group) Ltd., "Terra SAR Equipment Development", 2003 1 page	
/P.T./	CN1	Waligore, "Test and Training Technology Workshop" Applied Research Laboratories, February 15, 2002, 27 pages	
/P.T./	CO1	Winfield, Alan, "Distributed Sensing and Data Collection Via Broken Ad Hoc Wireless Connected Networks of Mobile Robots," Springer, pp. 273-282, (2000).	
Examiner Signature	/Phuc Tran/ (09/30/2009)		Date Considered

¹EXAMINER Initial if reference considered, whether or not citation is in conformance with MPPE 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ³Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/694,968
		Filing Date	October 28, 2003
		First Named Inventor	Brig Barnum Elliott
		Art Unit	2416
		Examiner Name	Tran, P. H.
		Attorney Docket Number	BBNT-P01-249
Sheet	9	of	9

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/P.T./	CP1	Office Action dated January 22, 2009, Serial No. 10/694,968	
/P.T./	CQ1	Office Action dated February 24, 2009, Serial No. 10/786,335	
/P.T./	CR1	Office Action dated February 25, 2009, Serial No. 10/649,030	
/P.T./	CS1	Office Action dated March 3, 2009, Serial No. 10/752,988	
/P.T./	CT1	Office Action dated May 1, 2009, Serial No. 10/913,151	

Examiner Signature	/Phuc Tran/ (09/30/2009)	Date Considered	
-----------------------	--------------------------	--------------------	--

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached